

Science Course Purpose

Your child will engage in scientific inquiry using scientific literacy. Students will apply a range of thinking processes, such as recalling facts, applying knowledge, analyzing, evaluating and creating.

Grade Level Expectations

FORCES AND MOTION

Students will be able to describe the motion of objects and how they can be changed by pushing and pulling. They will also be able to describe the apparent movement of the sun across the sky and the changes in the length and direction of shadows during the day.

STRUCTURE AND FUNCTION

Students in first grade will be able to:

- Infer from direct observation and print or electronic information that most animals and plants need water, food and air to stay alive.
- Identify structures and behaviors used by mammals, birds, amphibians, reptiles, fish and insects to move around, breathe and obtain food and water (e.g., legs/wings/fins, gills/lungs, claws/fingers, etc.)
- Sort and classify plants (or plant parts) by observable characteristics (e.g., leaf shape/size, stem or trunk covering, flower or fruit).
- Use senses and simple measuring tools to measure the effects of water and sunlight on plant growth.
- Compare and contrast information about animals and plants found in fiction and nonfiction sources.
- Describe the life cycles of organisms that undergo or do not undergo metamorphosis.

Science and Technology in Society

Students will estimate, measure and compare the sizes and weights of different objects and organisms using standard and nonstandard measuring tools.

Social Studies Course Purpose

Your child will discuss information from history and social studies to enhance their understanding of our nation and our world using literacy, inquiry and research skills to analyze, evaluate and present history and social studies information.

Grade Level Expectation

CONTENT KNOWLEDGE

In first grade your child will be able to: know history-related holidays; understand the characteristics of the family and community; compare and contrast differences in experiences of people of different generations; recall phone number and address; explain the significance of important locations in a neighborhood; explain where members of one's own extended family lives; understand that families and schools develop rules to govern and roles of responsibilities to protect themselves; develop an awareness of wants and needs and analyze how one's actions affect others.

HISTORY AND SOCIAL STUDIES LITERACY

First grade students will be able to: gather information from listening to and reading nonfiction texts; write one-sentence descriptions of historical scenes; participate in classroom discussions; create relevant social studies materials such as maps, charts or displays (identifies locations using map symbols, give and follow directions using N, S, E, W, identify land/water formations on a map/globe).

HISTORICAL APPLICATION

Students will describe two different sides/points of view of one event. They will show awareness that people's feelings and views can change over time. They will identify issues such as recycling, nutrition and safety and analyze one's responsibility for resolving them.

Unified Arts Course Purpose

Music and Visual Arts

Your child will gain an understanding and appreciation of the arts, as well as the ability to participate in creating and performing the arts, as they are essential attributes of an educated person. Your child will understand and use the materials, techniques, forms, language, notation, literature/ repertoire, and diverse cultural and historical contexts of each art form.

Physical Education

Your child will take responsibility for protecting his/her own health. Students will learn about nutrition and physical activity, and apply this knowledge by making healthy choices for themselves. Each child will have opportunities to:

- demonstrate mature movement forms and apply movement concepts
- exhibit a physically active life-style and healthy level of fitness
- demonstrate the skills and knowledge necessary to participate in a variety of physical activities;
- make decisions to establish and maintain a healthy lifestyle to promote individual wellness throughout his or her entire life;
- recognize and understand the different effects of physical activity on one's mind and body; and
- develop interpersonal skills and exhibit positive character traits during physical activity.

Grade One

Curriculum

East Windsor Public Schools



Mission:

Broad Brook Elementary School's mission is to offer our entire community of learners a varied and challenging curriculum, in a safe and nurturing environment that is conducive to teaching and learning. The school community is committed to developing respectful behaviors, personal responsibility and productive citizenship.

Student Profile:

First grade students learn best with concrete examples and many opportunities to talk about what they are learning. Learning to work cooperatively in a whole group or small group supports their ability to become independent thinkers and learners.

Grade One/Course Purposes and Expectations

Language Arts Course Purpose

Your child will engage in the workshop instructional model to read, think, analyze, question and converse about books on a daily basis, so that every student will be highly skilled in reading, writing, listening, speaking, viewing and presenting across all content areas.

Grade Level Expectations

WRITING

Students in first grade will be exposed to different types of genre writing including descriptive, narrative, expository and poetry. They will write brief personal stories using pictures, words, and/or sentences. They will write a short informational piece that can include headings, titles, or pictures to help readers understand their ideas. These compositions will be completed using first grade punctuation (capital letters, ending with a period question mark or quotation mark), spelling and handwriting.

Writing Process

Students will communicate with others by applying English Language Conventions through the writing process of *Plan, Draft, Revise, Edit, Publish, and Reflect*. Students will use word lists to correct their own spelling, think about who will read and react to their paper and make changes to their writing to make the meaning of their story more understandable.

READING

Concepts about Print

Students will demonstrate the concepts about print: reading left to right; know letter names and sounds, read first grade lists and identify words while reading through pictures, meaning and

phonics; read simple graphs, charts and diagrams, and match words with one to one correspondence.

Phonemic Awareness and Phonics

Students will demonstrate the ability to hear, identify and manipulate the smallest units of sound (PA) and associate these sounds to certain letters or groups of letters (phonics).

- Identify initial, medial and final sounds in words.
- Distinguish long and short vowel sounds in spoken one syllable words, e.g., *bit/bite*.
- Delete, add and substitute letter sounds in initial position to make different words.
- Identify the number of syllables in a spoken word.
- Blend up to four orally presented phonemes into a correct CVC word.
- Segment one-syllable spoken words into phonemes.
- Identify uppercase and lowercase letters when shown out of order.
- Match sounds to letters to read words.
- Know sounds for common letter patterns, e.g., *sh, th, ch, oo, ee, igh, ing, ed*.
- Decode words with common letter patterns, e.g. *-ake, -ick*.
- Decode compound words, contractions and words with common inflectional endings, e.g., *-s, -es, -ed, -ing*.
- Use context clues and pictures to aid in the decoding of new words when letters are not sufficient.

Reading Comprehension

Students will learn and utilize before reading, during reading and after reading strategies to support thinking while reading. Examples include:

- Making predictions using the title, cover and author.
- State a purpose for reading.
- Use own experiences to help him/her understand new ideas and connect to ideas in the text.
- Ask and answer questions as he/she reads.
- Create mental pictures in their minds from the text.
- Make inferences to construct meaning.
- Retell information or story elements in order.

Reading Reflection/Behaviors

Students will choose a variety of “just right” genres to read, and/or listen to and explain their appeal, and be able to answer the question, “What did I learn today about myself as a reader?”

Mathematics Course Purpose

Your first grade student will learn mathematical thinking to explain and use problem-solving strategies in the following math areas: Algebraic Reasoning: Patterns and Functions; Numerical and Proportional Reasoning; Geometry and Measurement; and Working with Data.

Grade Level Expectations

Algebraic Reasoning: Patterns and Functions
Students will be able to:

- examine the different attributes of objects and explain their relationships.
- Identify quantities as equivalent or nonequivalent.

Number and Proportional Reasoning

- Develop strategies for addition and subtraction facts.
- Identify place value to the tens place with the use of manipulatives.
- Count by 1’s and 10’s to 100.
- Count by 2’s and 5’s to 50.
- Recognize and name numerals to 100.
- Use signs, +, -, and = correctly in a number sentence and simple story problems.
- Identify a number greater or lesser than a given number (less than 100).
- Solve addition and subtraction facts and story problems with manipulatives.
- Estimate more/less up to 50 objects.
- Identify odd and even numbers.
- Identify and compare equal parts of a whole.

Geometry and Measurement

- Classify shapes and solids by common characteristics.
- Estimate length, area, volume, weight and temperature using nonstandard units; e.g.:. paper clips.
- Use standard units of measure to communicate measurement in a universal manner.

Working with Data: Probability and Statistics

- Students will be able to collect data, organize data in tables and graphs and make comparisons of the data.
- Determine the likelihood of certain events through simple experiments and observations of games.